NC/QC/YD-W-1/2019-20/MM-C1 Date: 04-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.16 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.05 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.05 N/Sq mm	Shall not be less than 27 N/Sqmm

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Page No. 1/1,

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Proprietor

NC/QC/YD-W-1/2019-20/MM-PCC1

Date: 04-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.30	0 -20	30- 70
10mm	28.50	0 -5	10- 35
4.75mm	2.80	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.05	60-95	75-100	85-100	
01.18	60.65	30-70	55-90	75-100	
600.mic	52.25	15-34	35-59	60-79	
300.mic	23.70	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

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NC/QC/YD-W-1/2019-20/MM-C2

Date: 08-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	270min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.82 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.90 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.20 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YD-W-1/2019-20/MM--FA1

Date: 08-04-2019

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ranganath.R.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	95.55	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.10	60-95	75-100	85-100	
01.18	64.95	30-70	55-90	75-100	
600. mic	46.25	15.34	35-59	60-79	
300.mic	20.65	5-20	8-30	12-40	
150.mic	8.45	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	18.76 %	-----
2	Silt Content	----	0.58 %	Not more than 8%
3	Specific Gravity	----	2.61	-------

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Date: 08-04-2019

NC/QC/YD-W-1/2019-20/MM-CA1

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.65	85-100	90 - 100
10 mm	36.95	0 - 20	25 - 55
4.75 mm	7.35	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.96%	Not to exceed 25 %
2.	Crushing value	25.83 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YD-W-1/2019-20/MM-S1

Date: 08-04-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm **TMT Steel.**
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath R.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length Kg/m	**0.398**	0.363	**0.613**	0.567
03	Proof stress/Yield stress, fy , N/mm^2	**546.0**	500.0	**553.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.90**	16.00	**19.70**	16.00
06	Ultimate Tensile Strength N/mm^2	**634.0**	565.0	**643.0**	565.0

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NC/QC/YD-W-1/2019-20/MM-CB2

Date: 19-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-04-19	19-04-19	07	22500	385	17.11	16.74
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	375	16.67	

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NC/QC/YD-W-1/2019-20/MM-CB1A

Date: 09-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-04-19	09-05-19	28	22500	515	22.89	**22.59**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	500	22.22	

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NC/QC/YD-W-1/2019-20/MM-K1

Date: 02-05-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19.
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath R.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.15	23.11	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.37	23.30		
3	003	3.34	22.90		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.63	4.55
2	002	4.45	
3	003	4.58	

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EMAIL:newzen576@gmail.com

Date: 13-05-2019

NC/QC/YD-W-1/2019-20/MM-C3

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158min	Shall not be less than 30 min
2	Final setting time	265 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.19 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.80 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	29.13N/Sq mm	Shall not be less than 27 N/Sqmm

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EMAIL:newzen576@gmail.com

Date: 16-05-2019

NC/QC/YD-W-1/2019-20/MM-C4

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	155 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.15%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.80 mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	29.16N/Sq mm	Shall not be less than 27 N/Sqmm

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Date: 03-06-2019

NC/QC/YD-W-1/2019-20/MM-CB4

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-05-19	03-06-19	07	22500	525	23.33	**23.56**
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	535	23.78	

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Date: 24-06-2019

NC/QC/YD-W-1/2019-20/MM-CB4A

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-05-19	24-06-19	28	22500	740	32.89	**32.89**
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	745	33.11	

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NC/QC/YD-W-1/2019-20/MM-CB5A

Date: 25-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganath.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-05-19	25-06-19	28	22500	725	32.22	**32.59**
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	740	32.89	

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